

FIG. 2

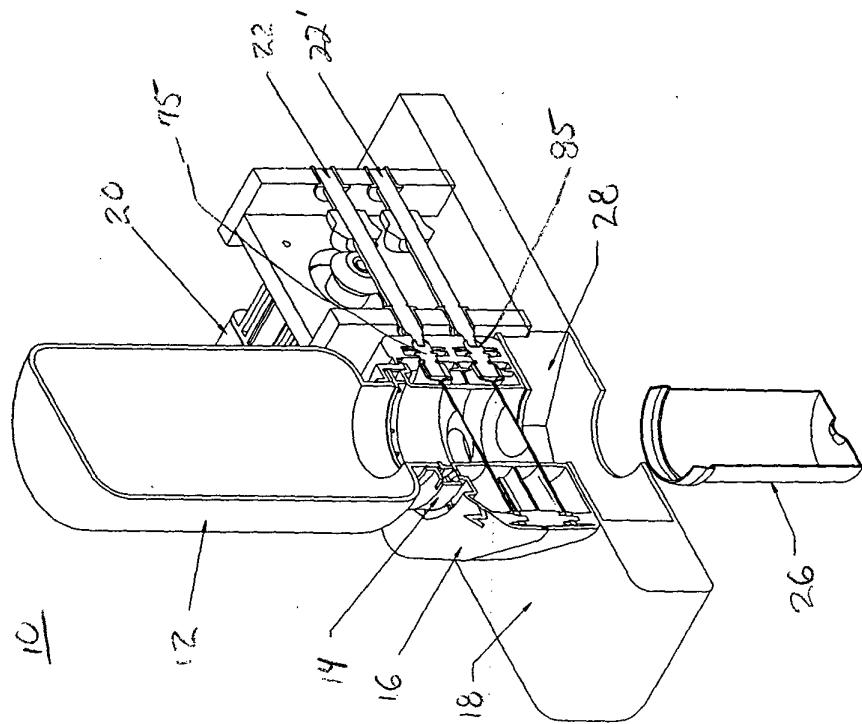
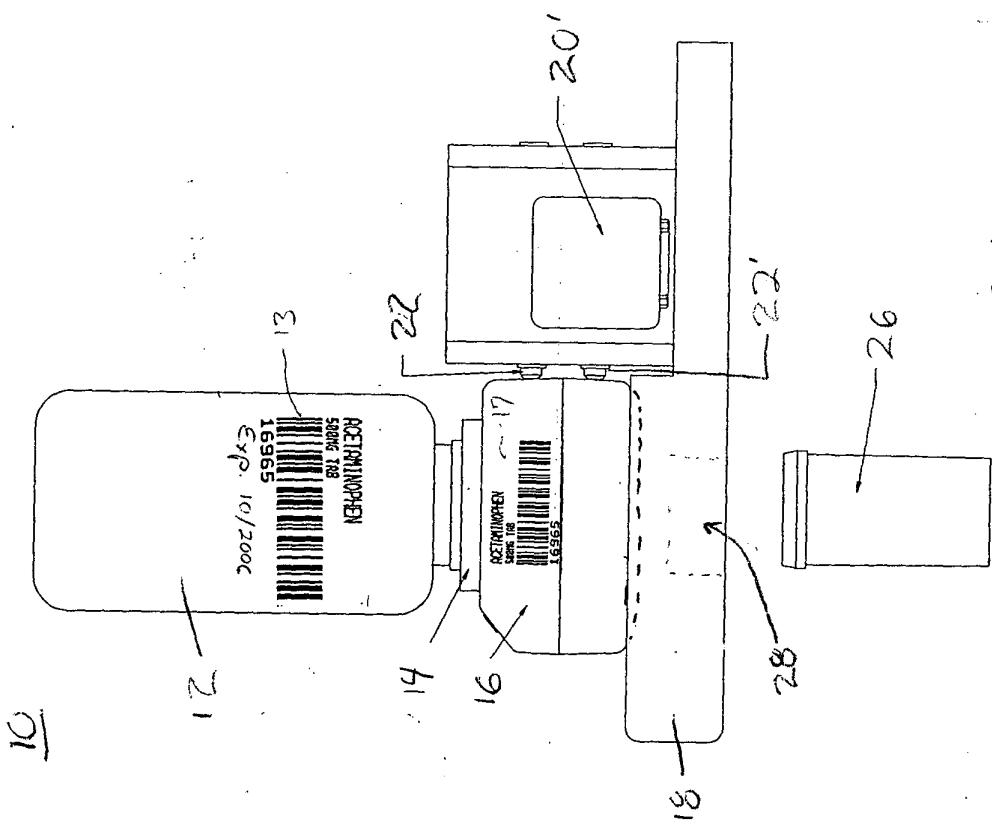


FIG. 1



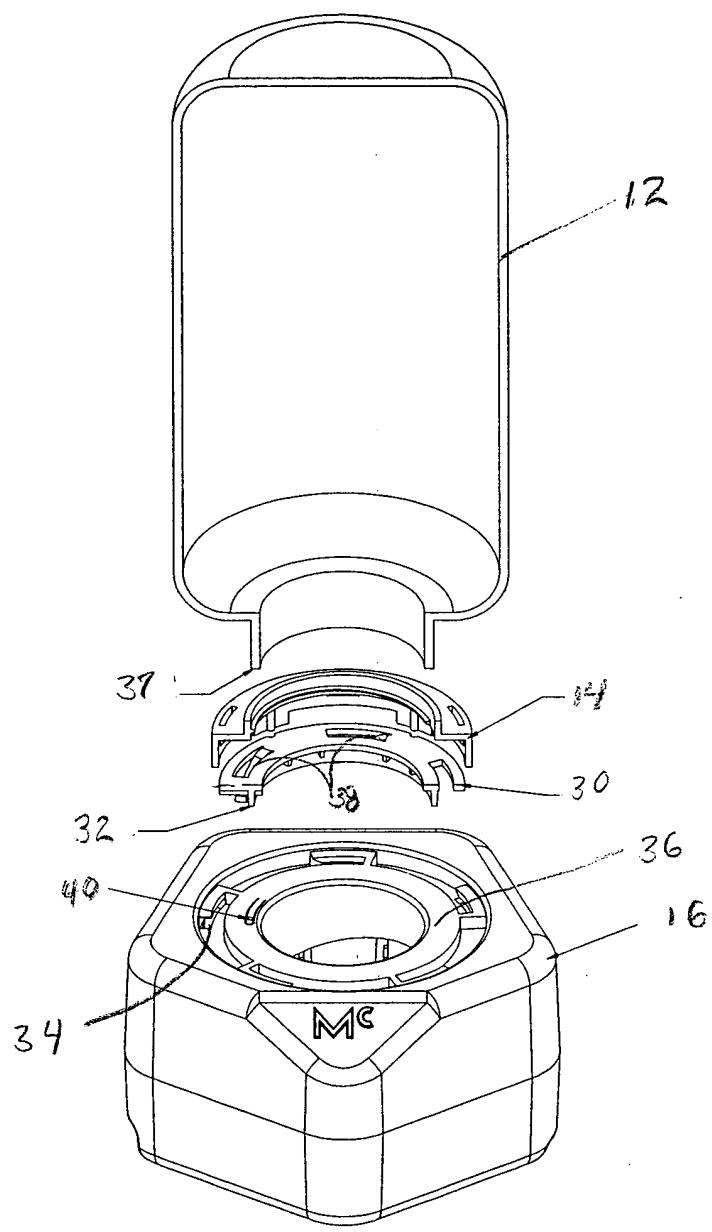


FIG. 3

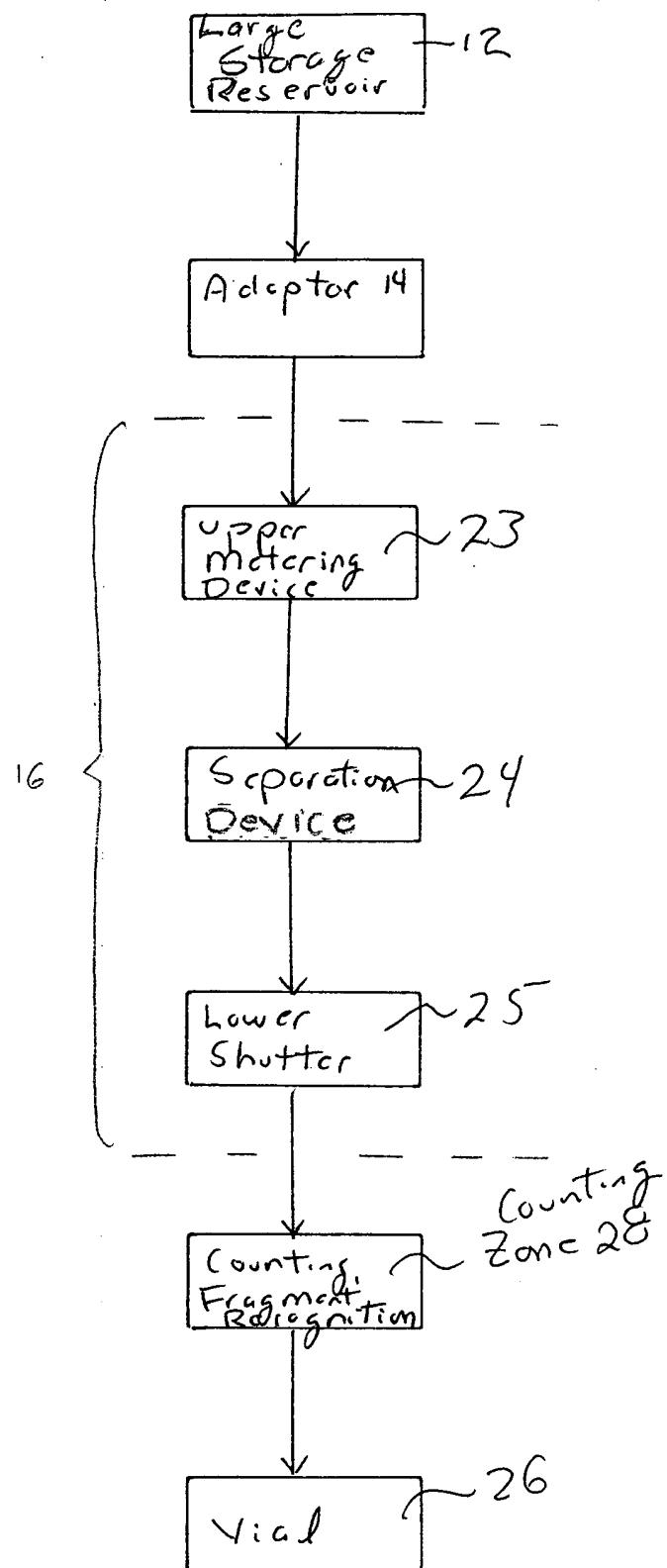


FIG. 4

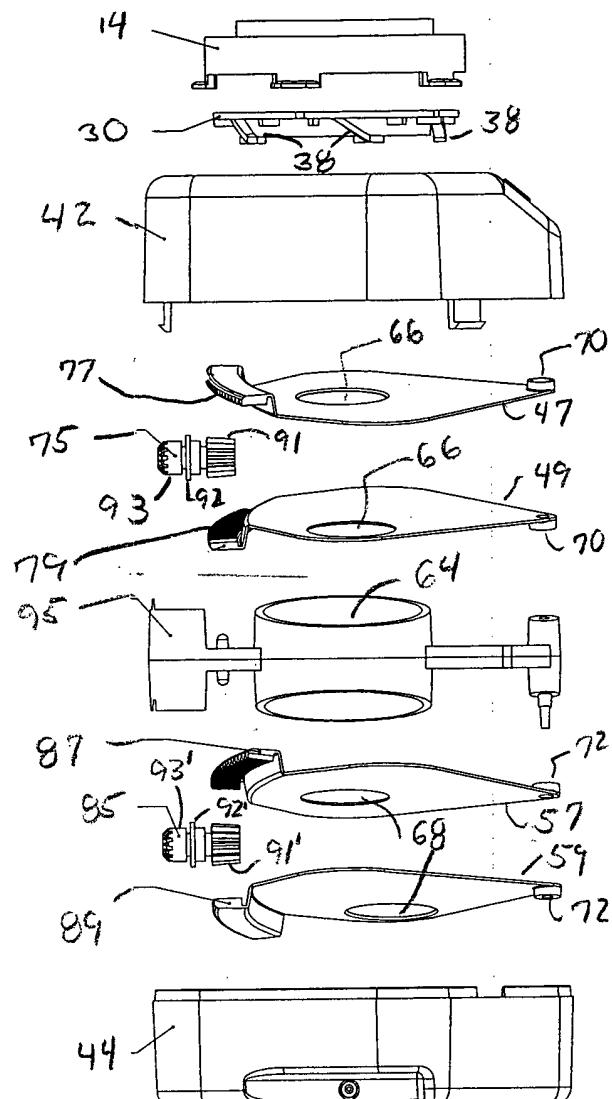


FIG. 5

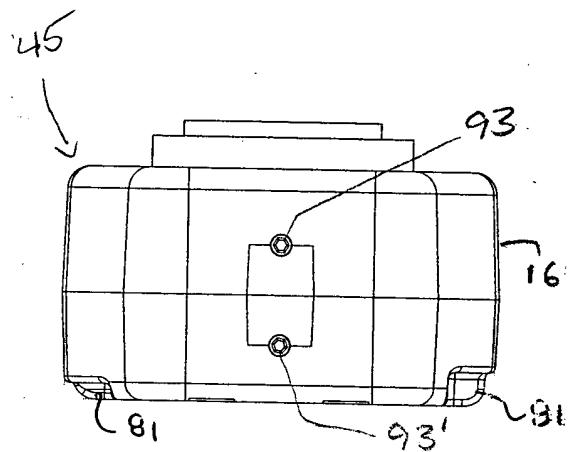


FIG. 6

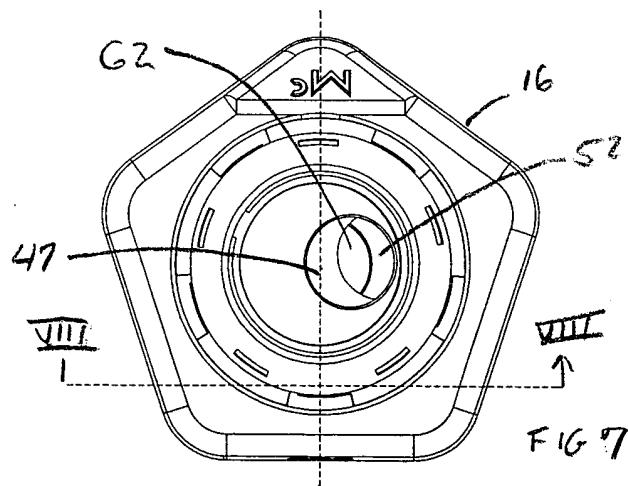


FIG. 7

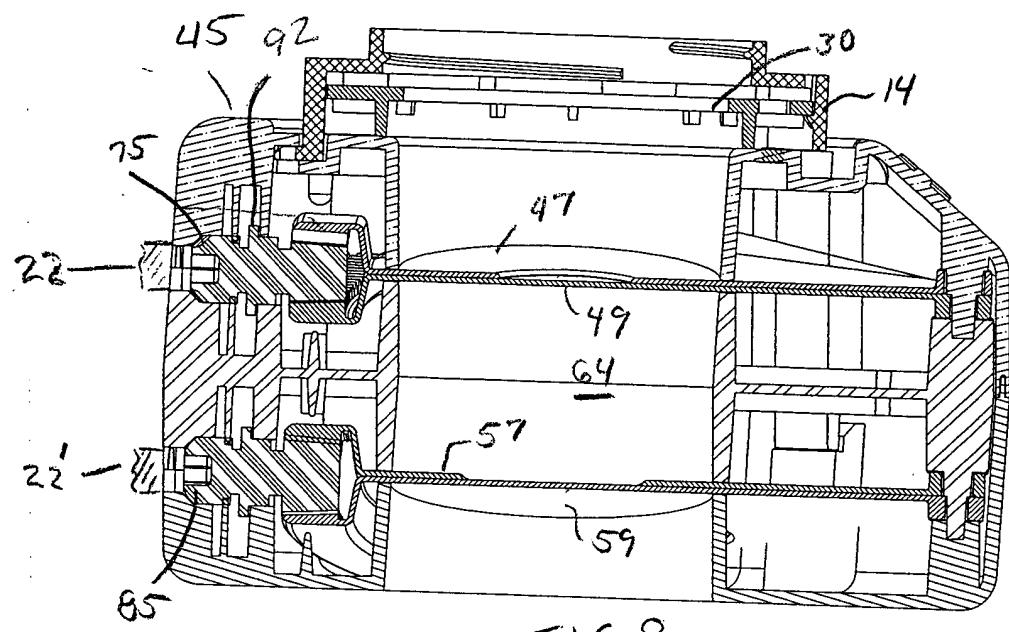


FIG. 8

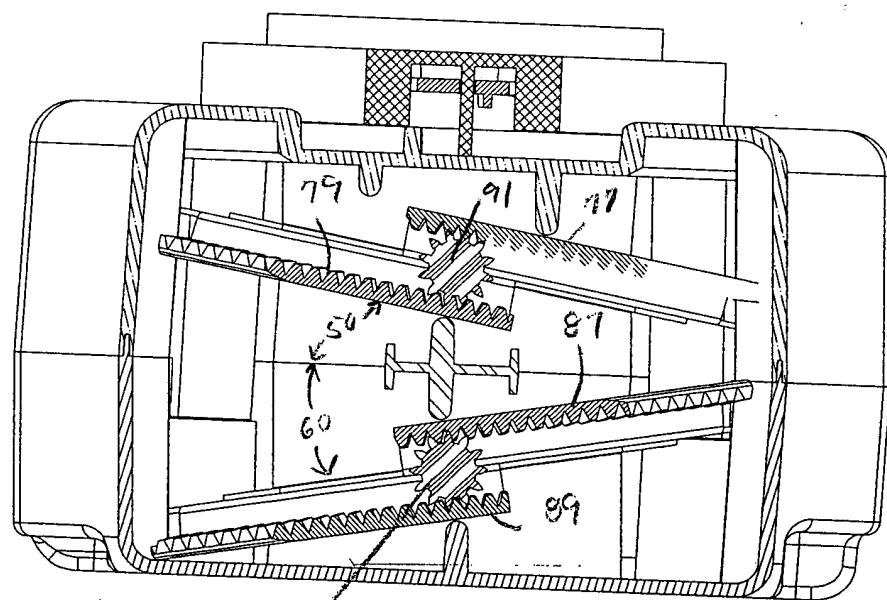
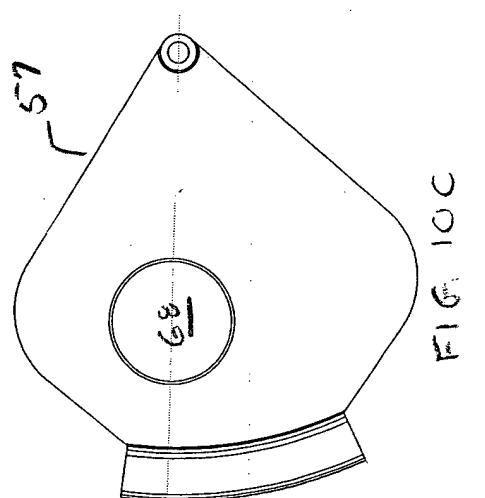
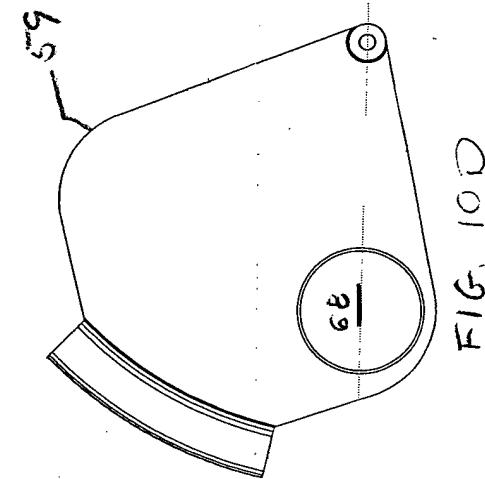
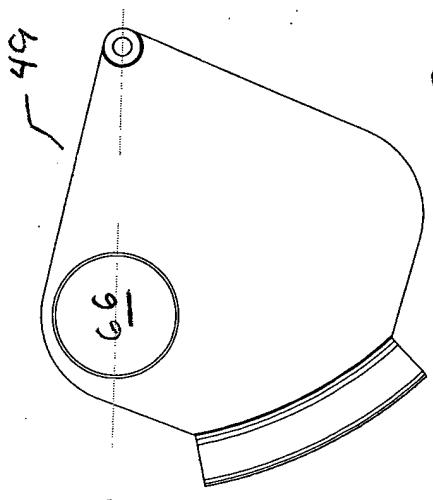
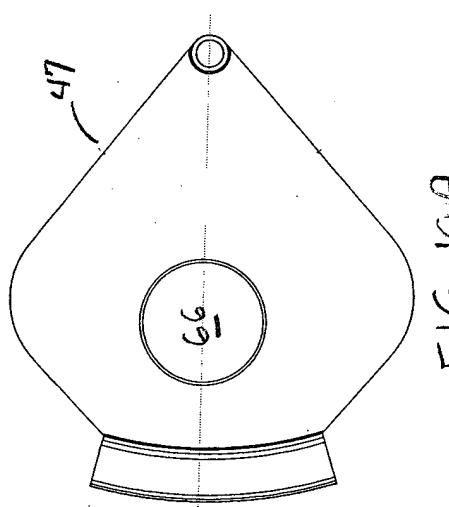


FIG. 9



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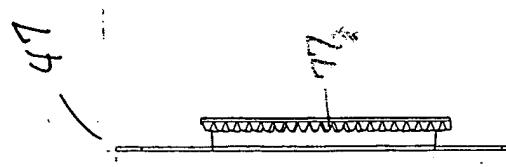


FIG. 11D

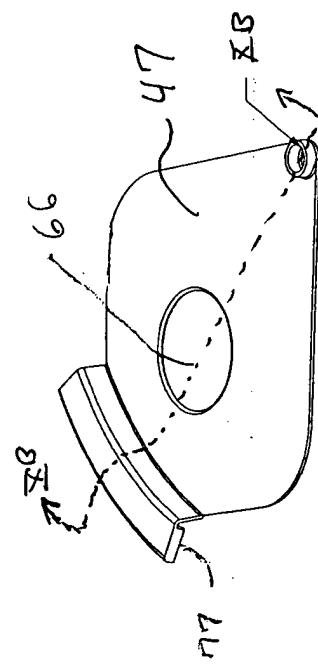


FIG. 11A

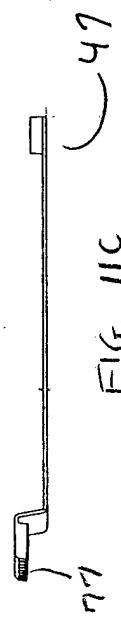


FIG. 11C

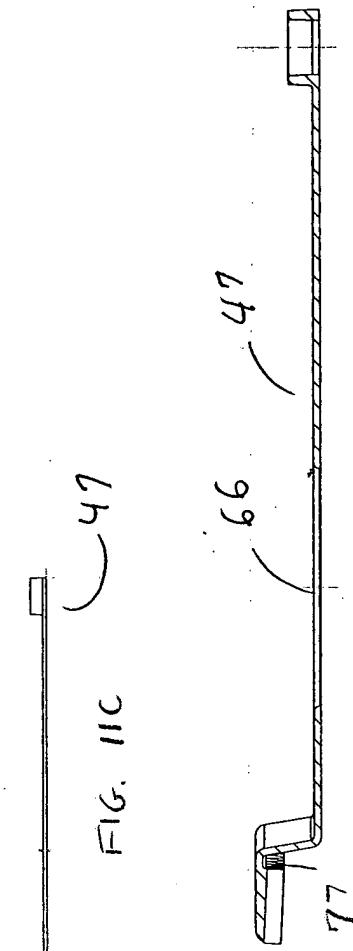


FIG. 11B

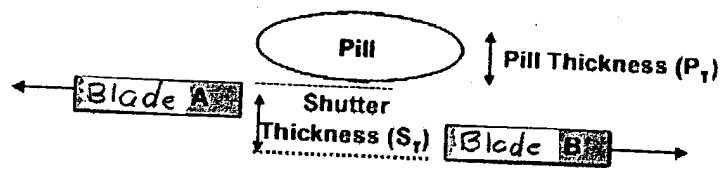


FIG. 12 A

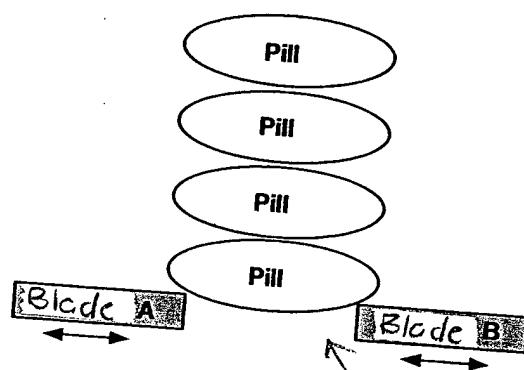


FIG. 12 B
shutter opening

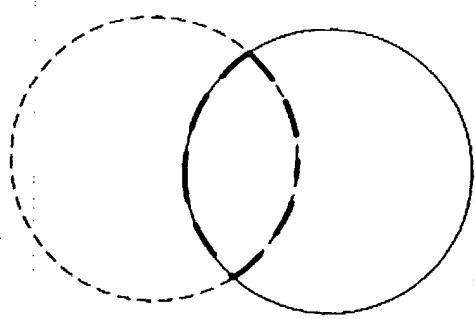


FIG. 13 A

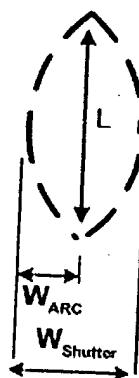


FIG. 13 B

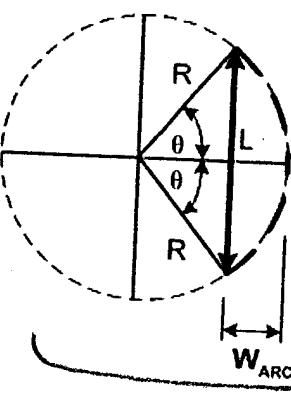


FIG. 13 C

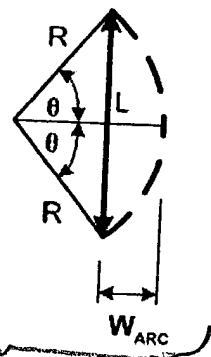


FIG. 14B

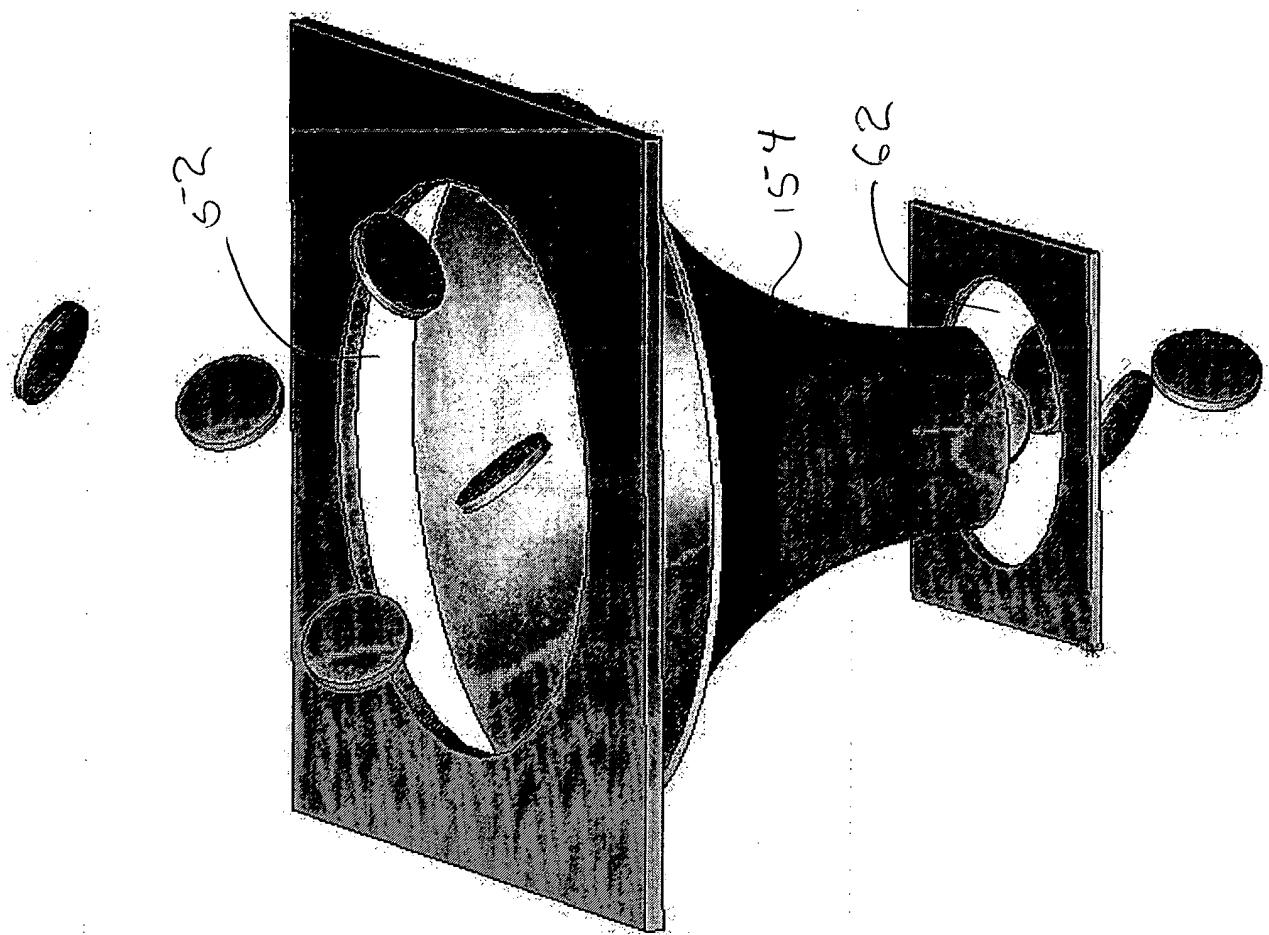
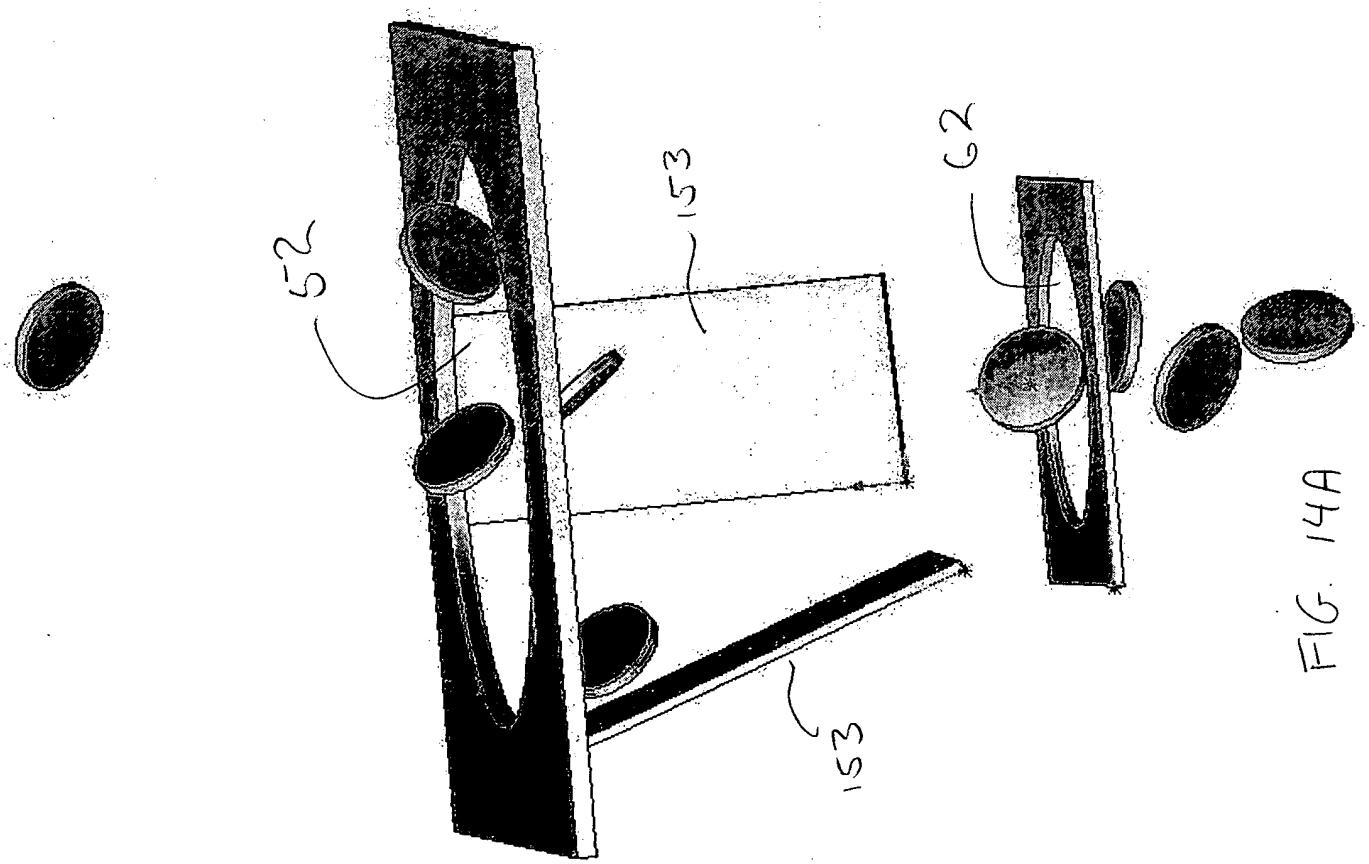


FIG. 14A



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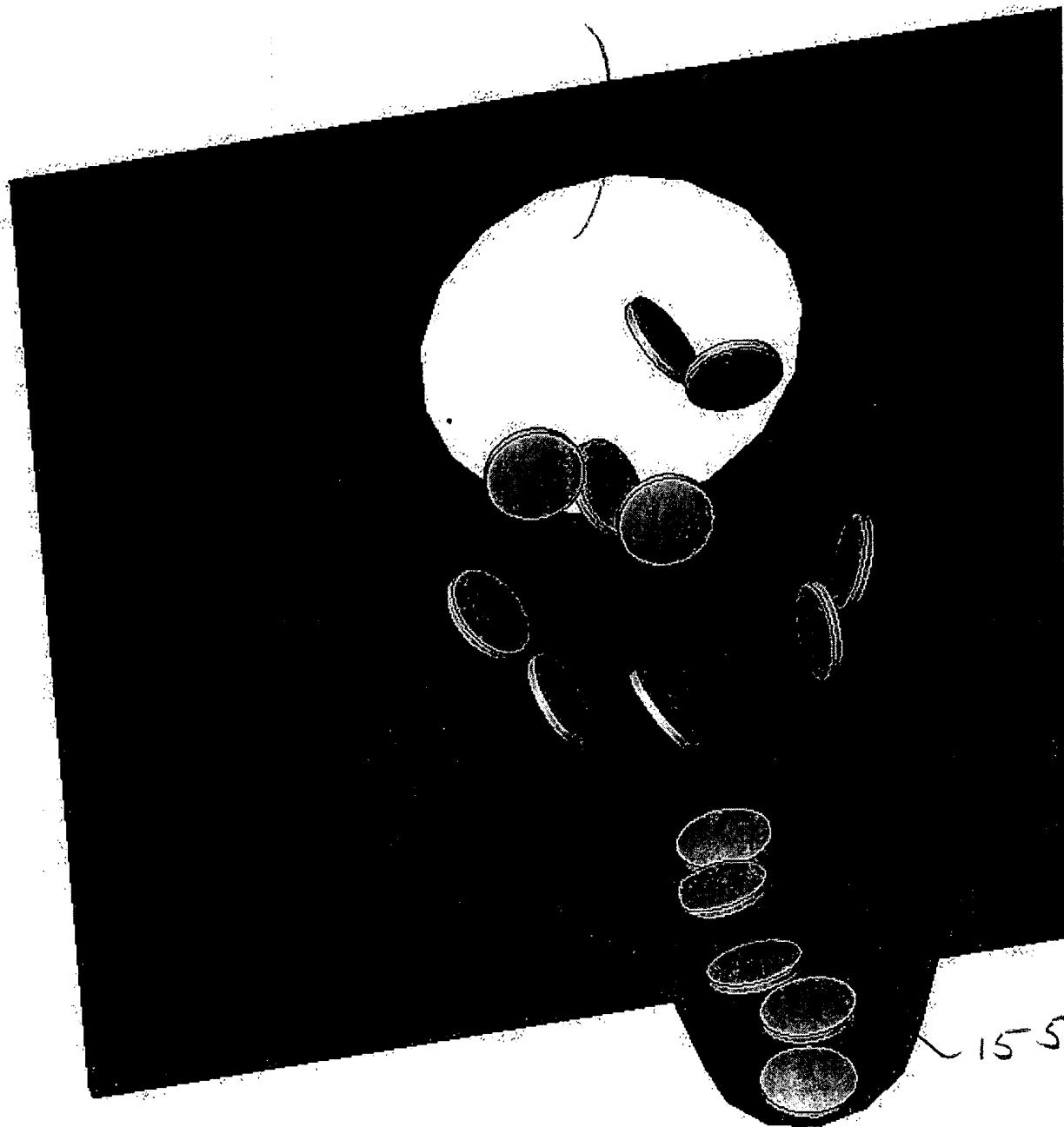


FIG. 14C

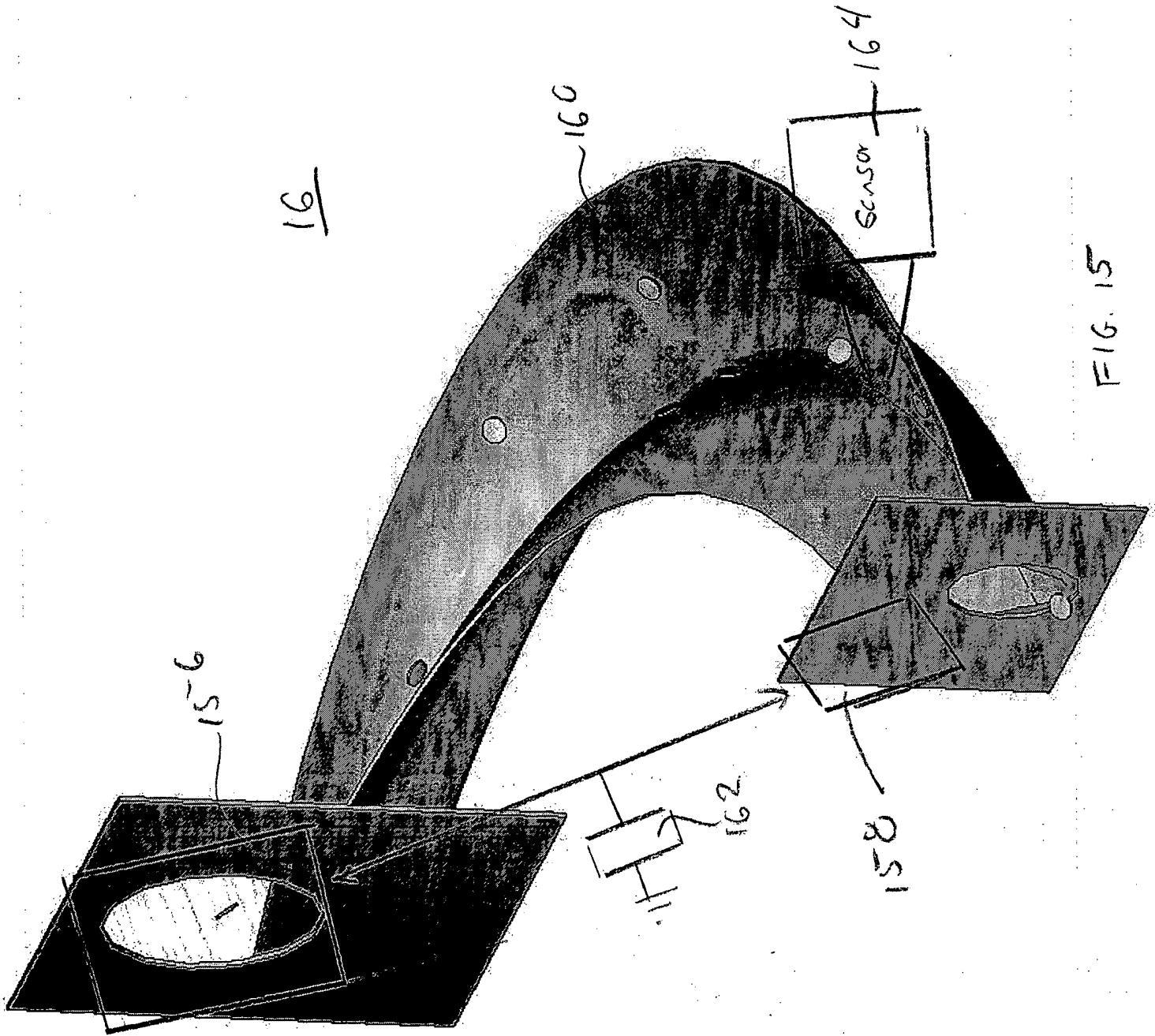


FIG. 15

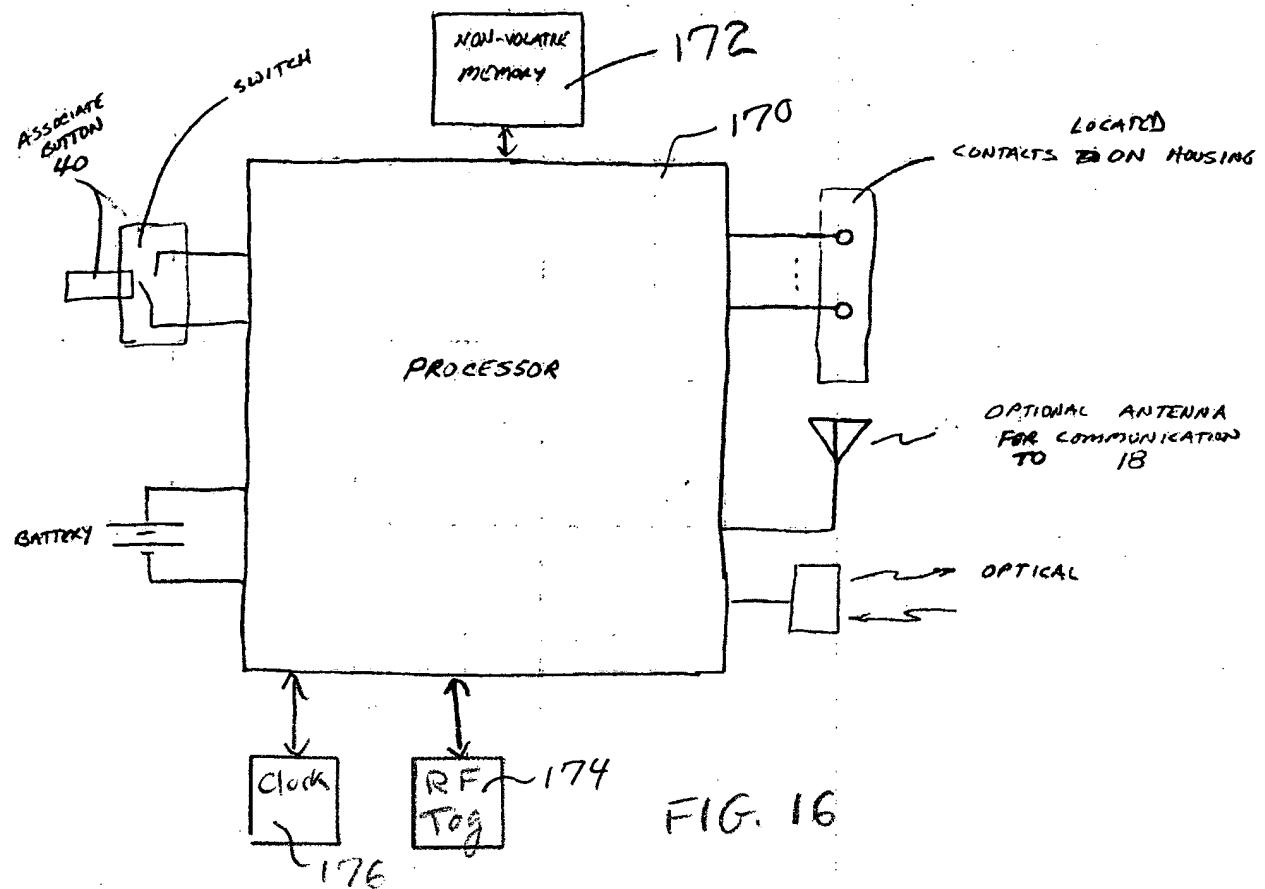


FIG. 16

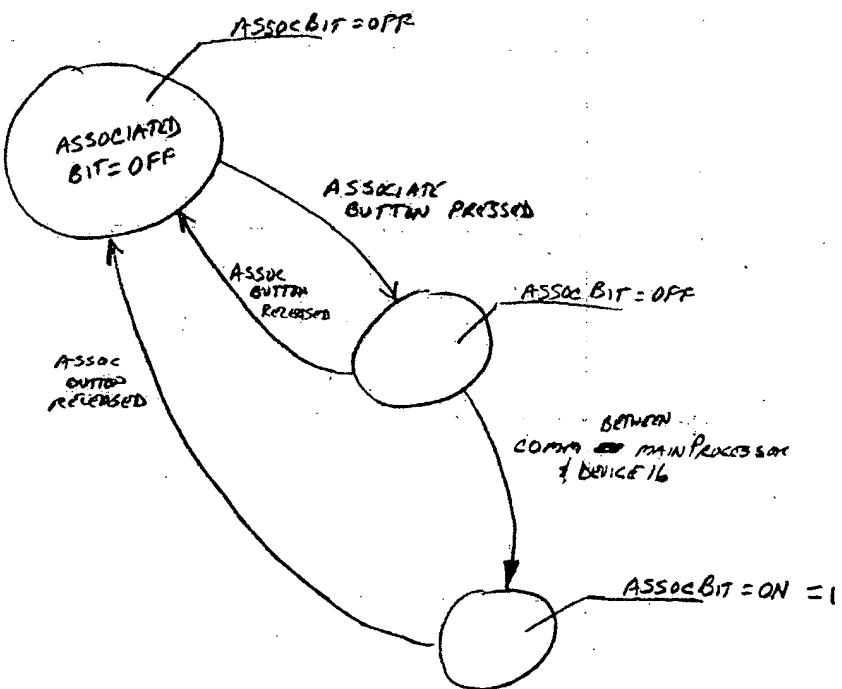


FIG. 17

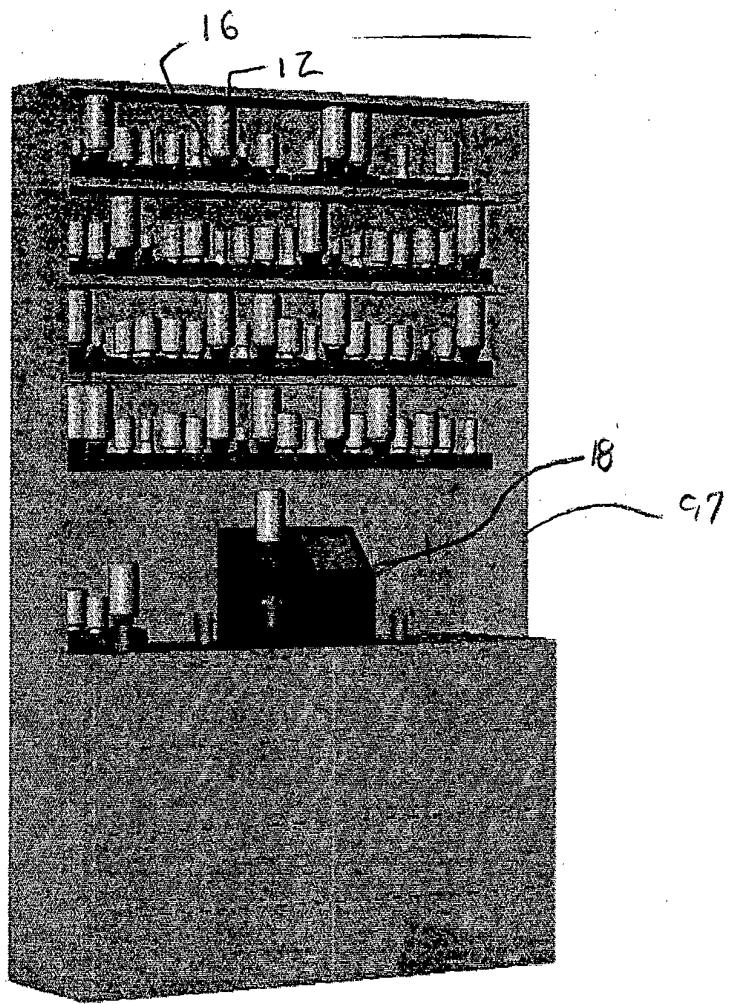


FIG. 18

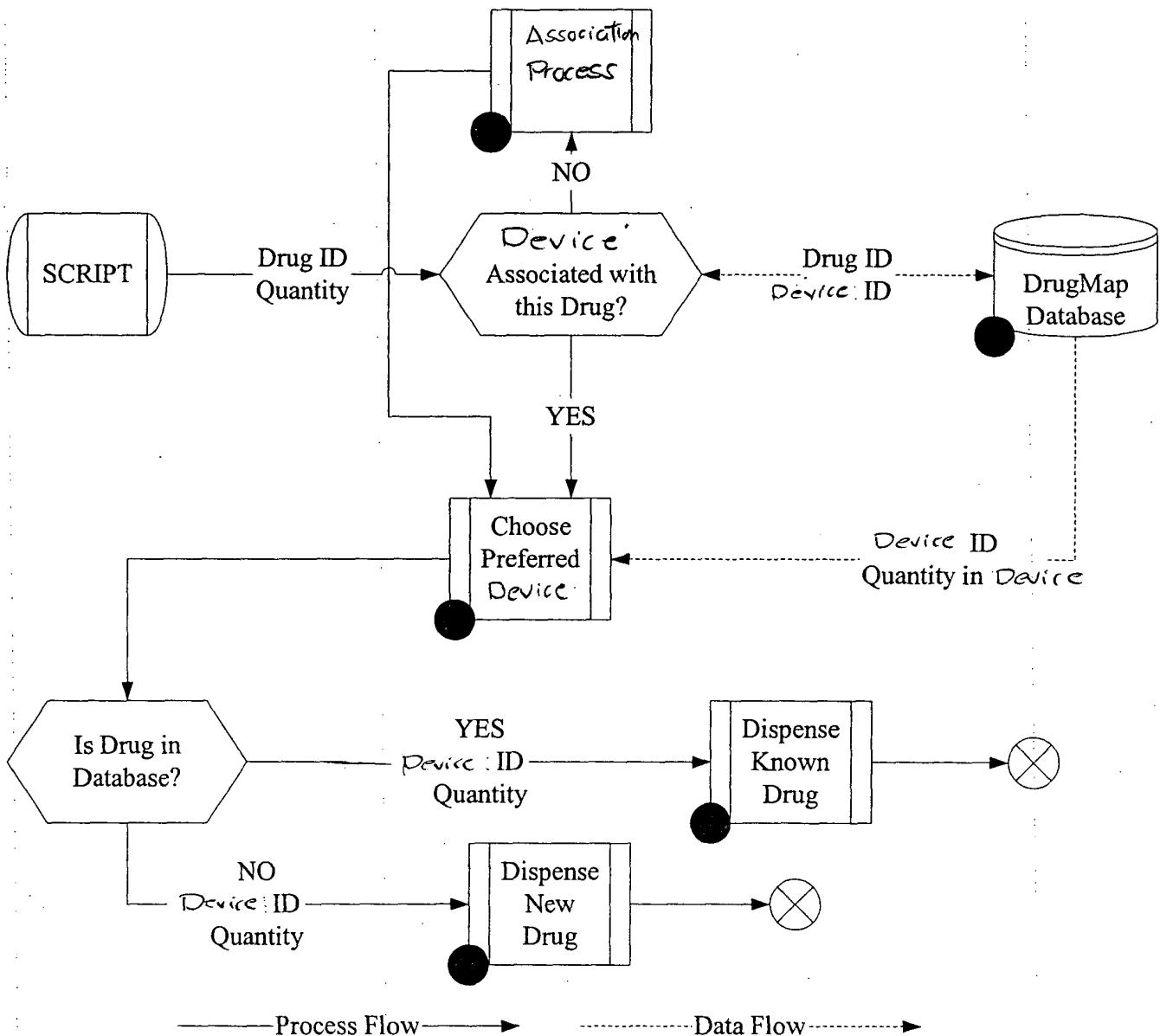


FIG. 18 A

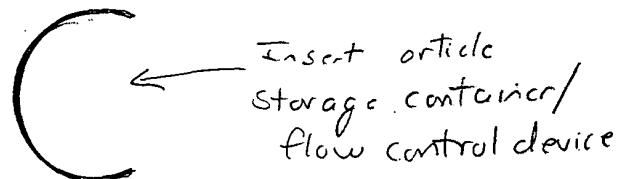


FIG. 19

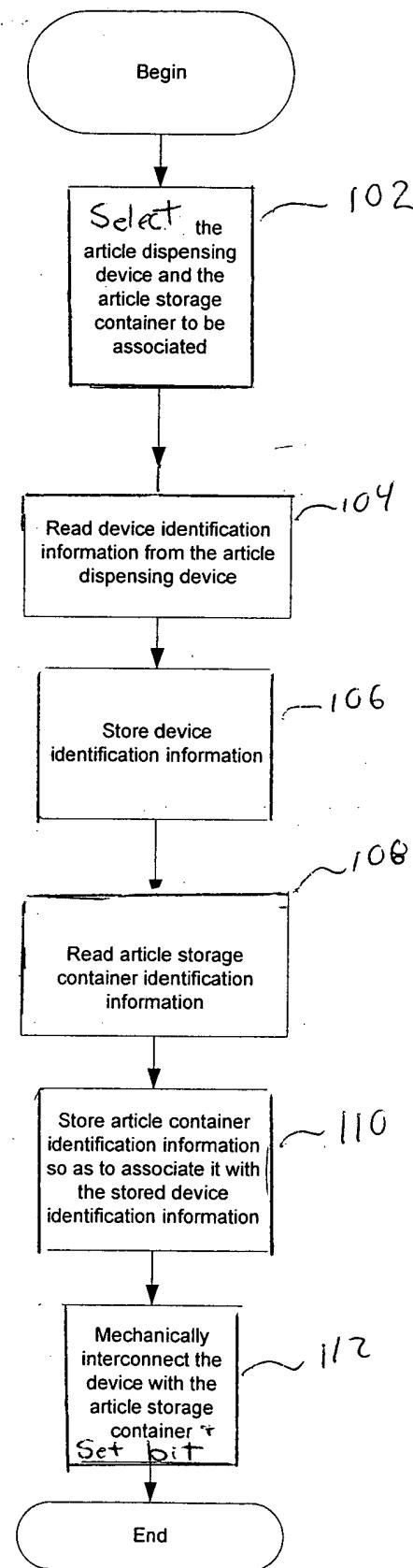


FIG. 20

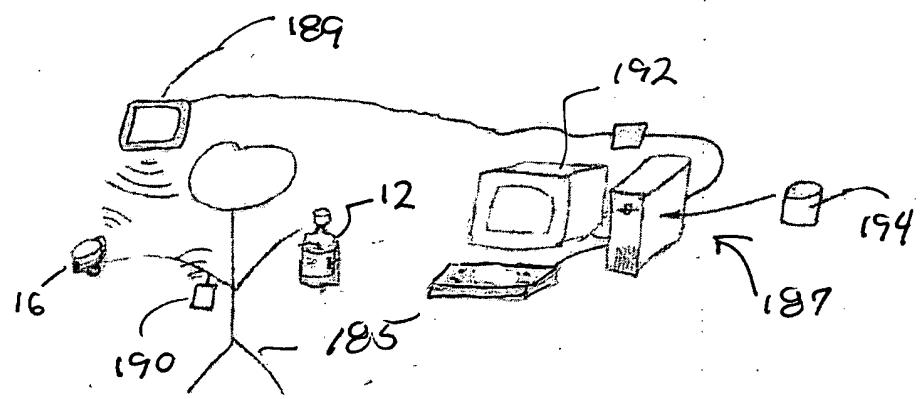


FIG. 21

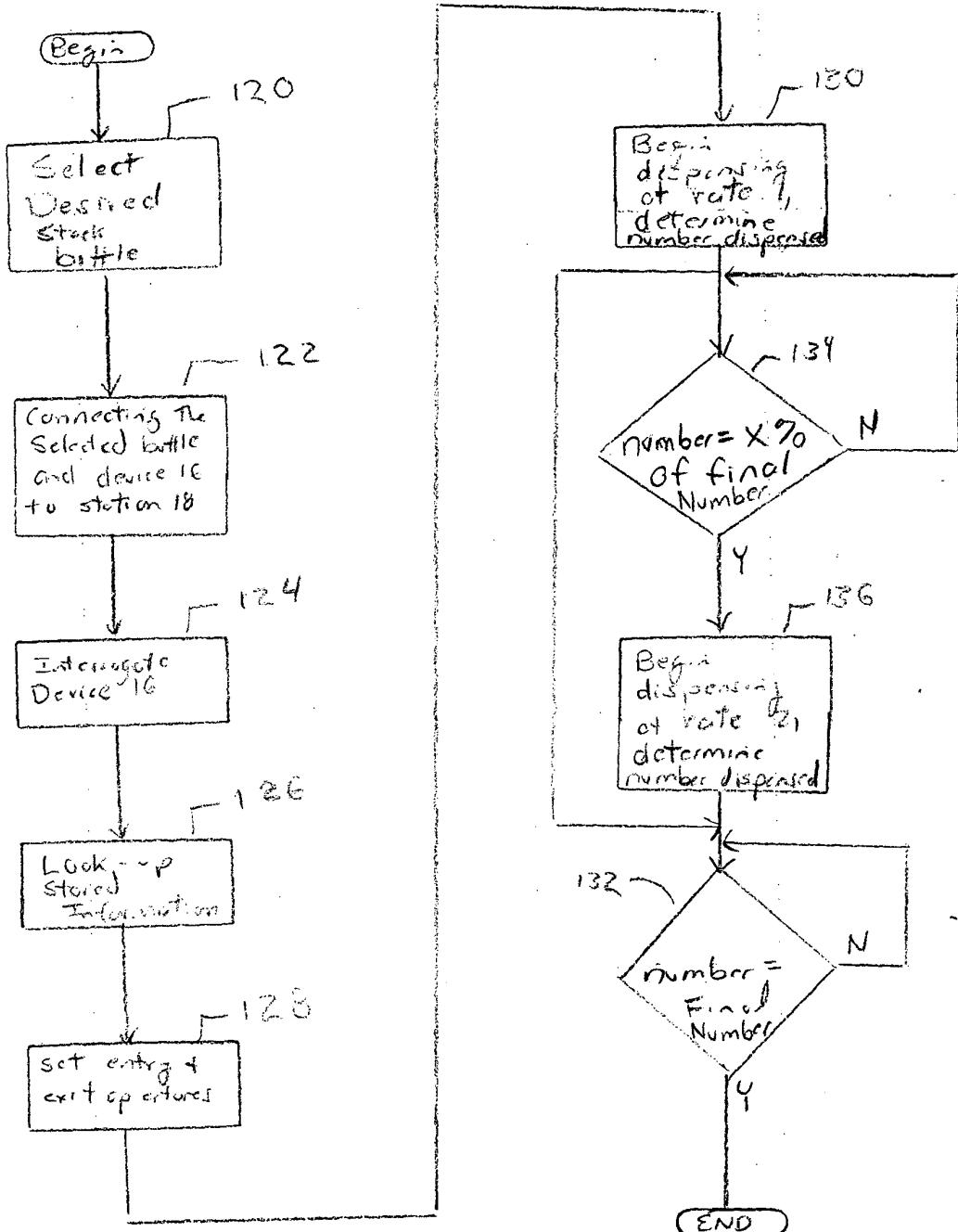


FIG. 22

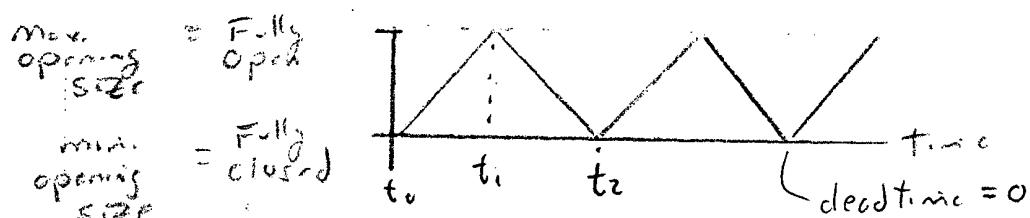
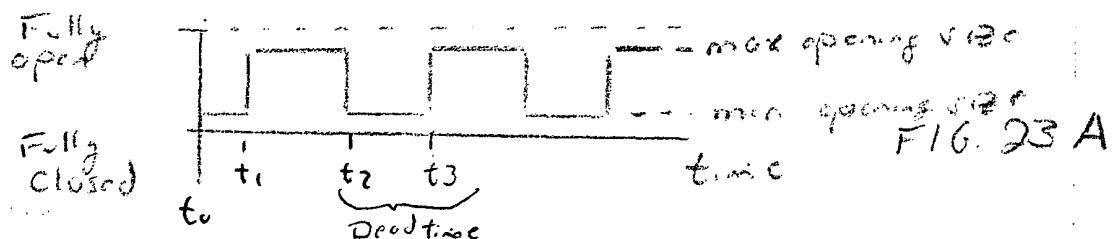


FIG. 23 B

SPY Feed Tester

Top Shutter			Bottom Shutter				
Fine	Bulk (x)	Mixed	Fine (x)	Bulk	Mixed		
This mode defines a 'Cycle' as:							
<i>Beginning with a</i>							
Small Opening of: <input type="text" value="0.1"/> inch							
<i>Growing to a</i>							
Large Opening of: <input type="text" value="0.5"/> inch							
<i>With a</i>							
Cycle Rate of: <input type="text" value="10.0"/> cps							
<i>Using a</i>							
Squariness of: <input type="text" value="1.0"/> range [0..1]							
<input type="button" value="0.0 in"/>	<input type="button" value="1.0 in"/>	<input type="button" value="Apply"/>	<input type="button" value="Stop"/>	<input type="button" value="0.0 in"/>	<input type="button" value="1.0 in"/>	<input type="button" value="Apply"/>	<input type="button" value="Stop"/>

Calibrate	Soft Home	<input checked="" type="button" value="Stop Both"/>	Gavo Settings	Bustoru Settings	List Settings	Test Motor	Exit
Un-Homed							

FIG. 24

Calibrator

Top Shutter

Jog Positive	100	Jog Negative
Jog Counts		
Home	0.0 in	

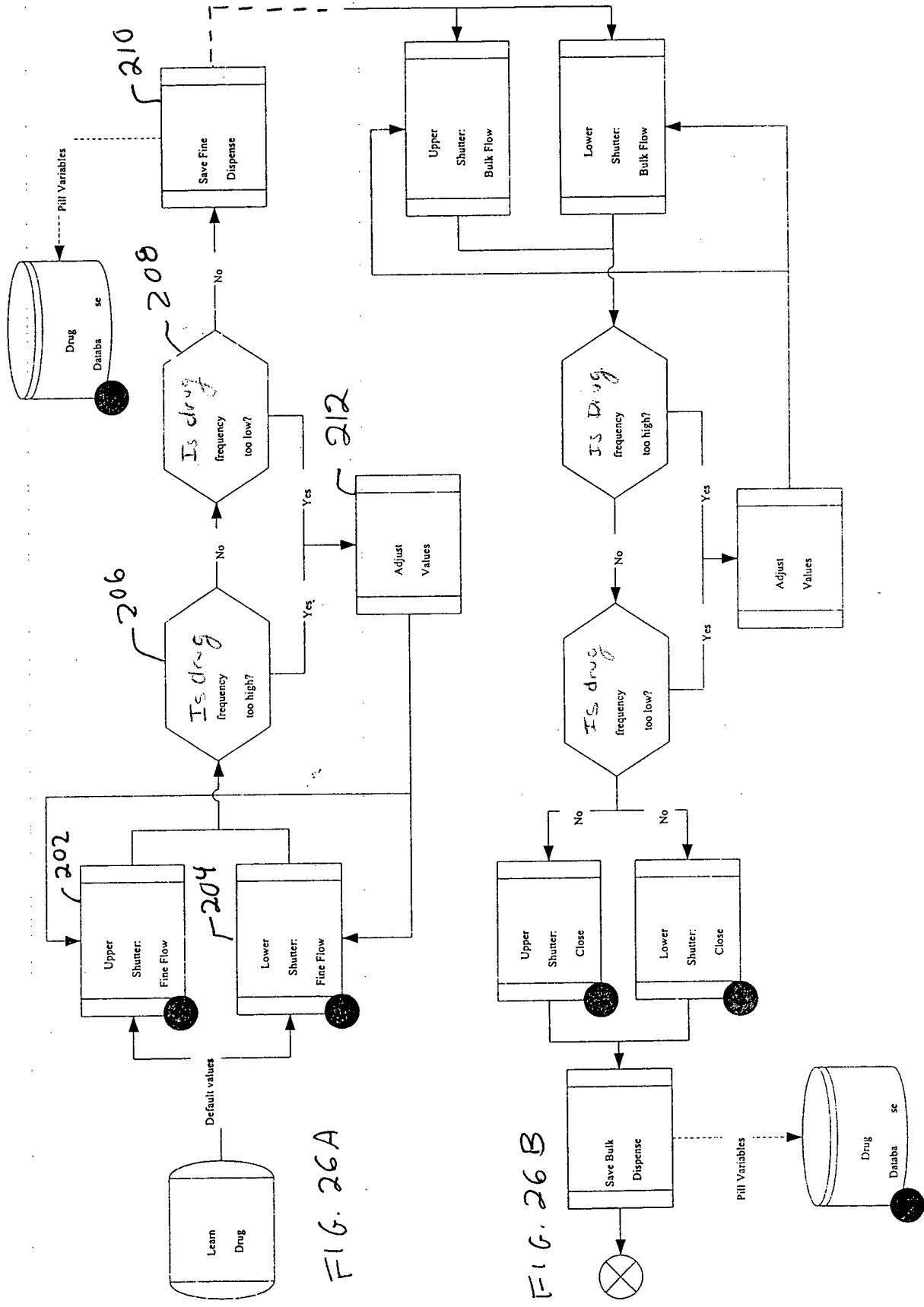
Bottom Shutter

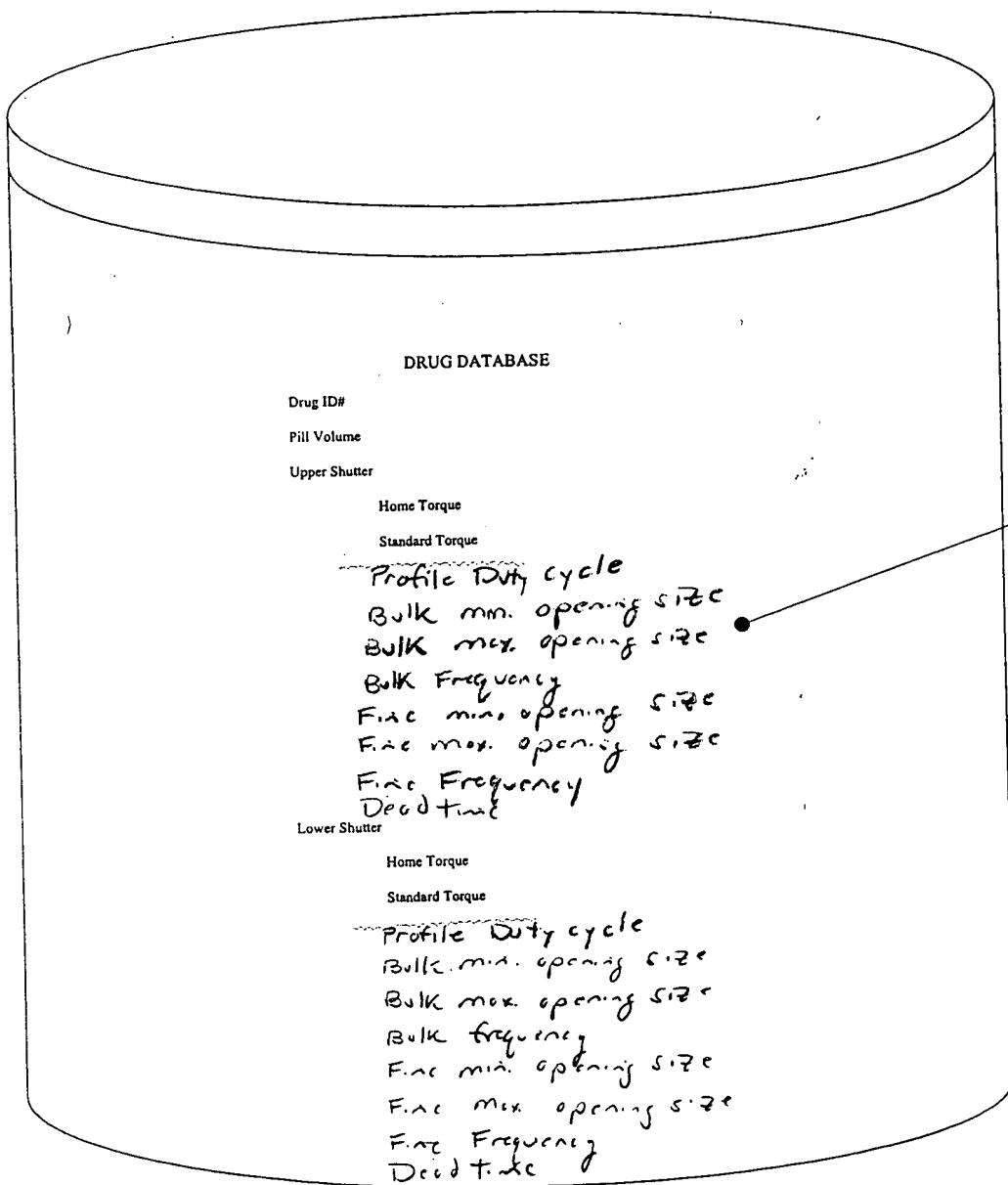
Jog Positive	123	Jog Negative
Jog Counts		
Home	0.0 in	

Done

100
123
0.0 in
0.0 in

FIG. 25





With testing, many of these variables may be eliminated. Consistent relations between variables for the upper and lower shutters may be realized.

EX: LoSh Home Torque =

$X * (\text{UpSh Home Torque})$

where X would be the same for every pill.

FIG. 27

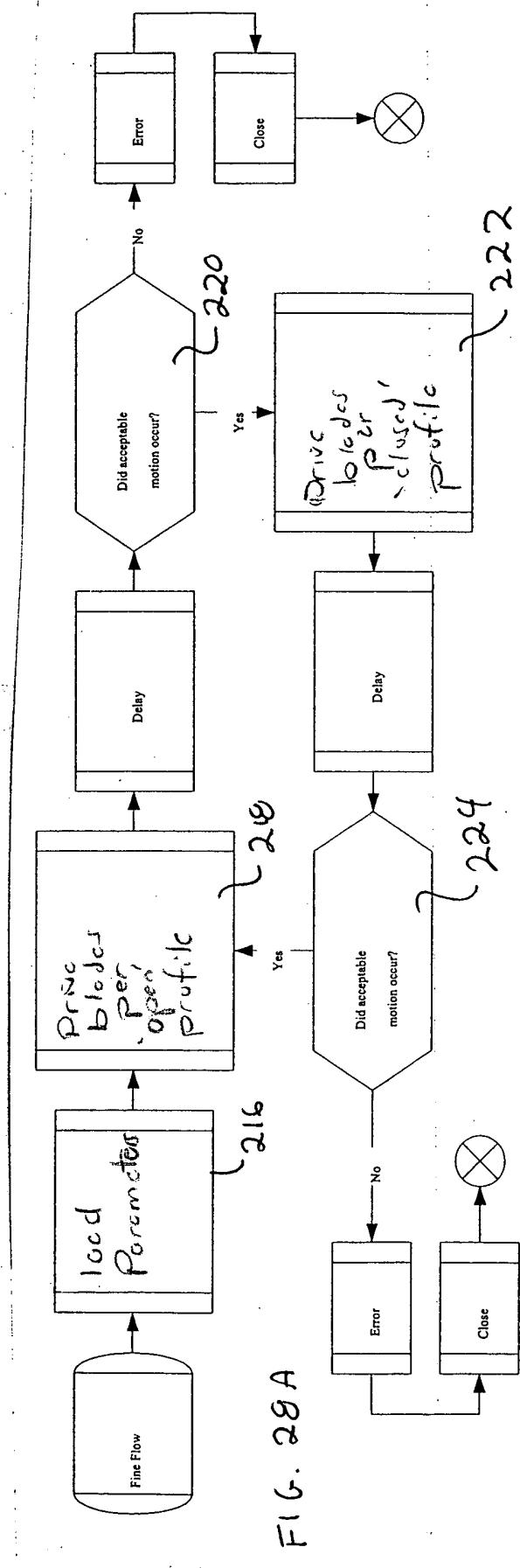


FIG. 28A

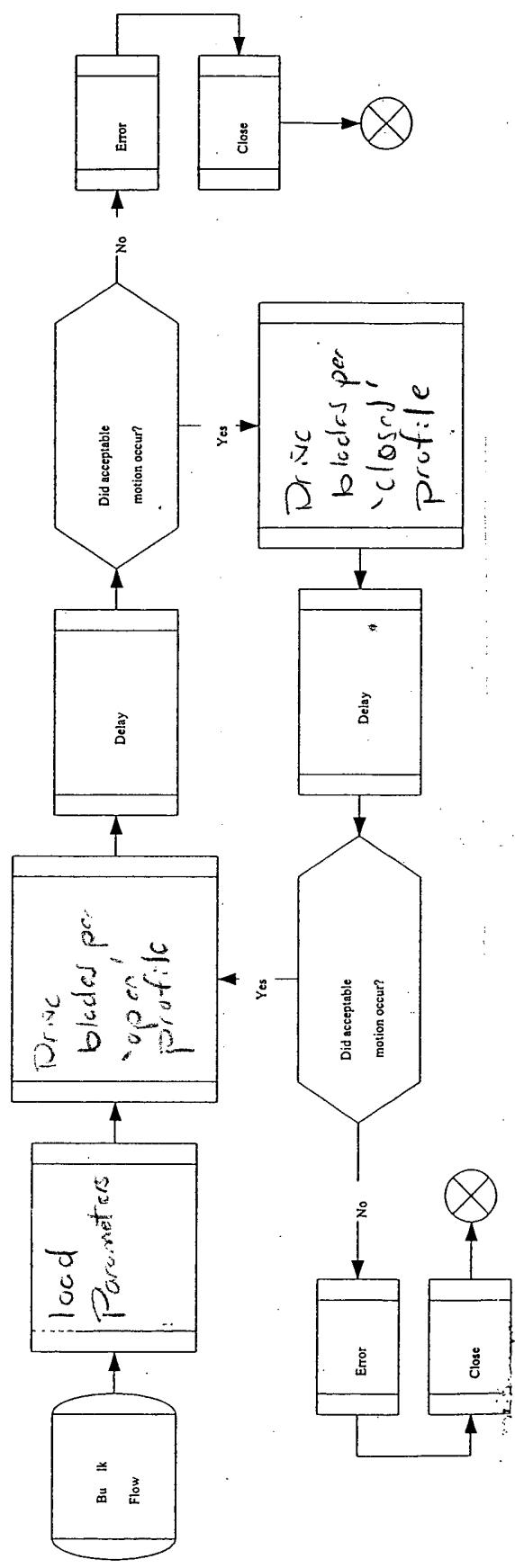


FIG. 28B